

INTERNATIONALSEARCHREPORT

International application No.

PCT/JP2005/001047

A. CLASSIFICATION OF SUBJECT MATTER		
Int.Cl. G02F 1/1343, G02F1/1337		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
Int.Cl. G02F 1/1343, G02F1/1337		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2005, Japanese Registered Utility Model Gazette 1994-2005, Japanese Gazette Containing the Utility Model 1996-2005		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 9-105908 A (HITACHI LTD) 1997.04.22, paragraph [0386] - [0400], Figs. 47-49 & US 6266116 B1 & TW 454101 B	1-12, 16, 21 13-15, 18-20, 22-24
X Y	JP 2001-337338 A (MATSUSHITA ELECTRIC IND CO LTD) 2001.12.07, paragraph [0288] - [0344], Figs. 41-47 & WO 01/25843 A1 & EP 1229378 A1 & US 6801293 B1 & KR 2002/035625 A & CN 1378657 A	1-12, 16, 21 13-15, 18-20, 22-24
X Y	JP 9-274203 A (FURONTEC INC) 1997.10.21, full text, all drawings & US 6052163 A & KR 97/071099 A	1-12, 16, 21 13-15, 18-20, 22-24
X Y	JP 11-194353 A (NEC CORP) 1999.07.21, full text, all drawings & US 6259503 B1 & KR 99/063563 A & TW 473635 A	1-12, 17, 21 13-15, 18-20, 22-24
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
30.03.2005		12.04.2005
Name and mailing address of the ISA/JP		Authorized officer
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